UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

SUBJECT: Toxicological Review of HW60 Data — 30 April 2012
Dimock, PA

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On 5 March 2012, U.S. EPA collected water samples from HW60 in Dimock. The samples were analyzed for over 200 constituents, including volatile organic compounds, semi-volatile compounds, metals and bacteria. The analytical results were then validated and compared to risk-based screening levels and/or standards for public drinking water supplies.

Note that HW60 is a "weekend residence." The owners rely on bottled water as a potable source.

Arsenic

Arsenic was observed in HW60 at 9.3 ug/L in an unfiltered sample collected from the wellhead. While this concentration slightly exceeds the risk-based screening level for arsenic in tap water (4.5 ug/L), it is less than the enforceable drinking standard for public water supplies (10 ug/L).

Lithium

Lithium was reported in HW60 at a concentration of 47.7 ug/L (wellhead, unfiltered). This concentration slightly exceeds lithium's risk-based screening level of 31 ug/L under a long-term exposure scenario. Under acute exposure conditions, ATSDR has suggested a screening concentration of 1500 ug/L for lithium in drinking water.

Sodium

An unfiltered wellhead sample collected from HW60 contained sodium at 20,300 ug/L. A quantitative assessment of risk cannot be performed for sodium; however, U.S. EPA has a non-enforceable Health Advisory of 20,000 ug/L for sodium in drinking water. This value is based on recommendations for individuals on sodium-restricted diets.

No other constituents were detected at levels of concern in this well.